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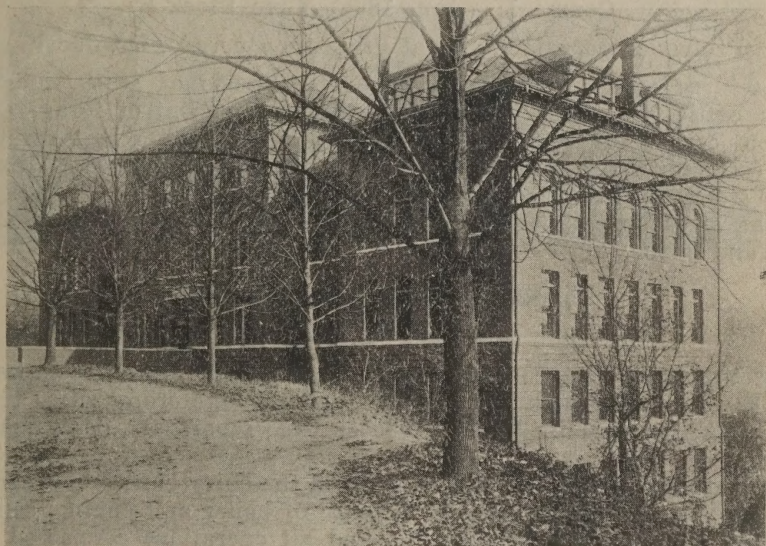
THE FARMER'S SCHOOL

Short Winter Courses in Agriculture

at the

UNIVERSITY OF TENNESSEE

JAN. 4-MAR. 13, 1909



MORRILL HALL, THE NEW AGRICULTURAL BUILDING

Tuition Free. No entrance examinations. Courses divided into two-weeks periods; may be taken singly or as a whole. Open to everybody sixteen years of age or over who can read and write.

See list of prizes on back page.

COLLEGE OF AGRICULTURE
University of Tennessee
Knoxville

THE COURSES

Course I.—Jan. 4-16—Soils, Fertilizers, Farm Crops

Professors Mooers, Bain, and Morgan

The morning hours are devoted to lecture and class work on soils, their structure and elements; kinds of soil adapted to various farm crops; tillage; barnyard manure; commercial fertilizers, their elements and value; plant food required for certain crops; rules for mixing fertilizers; the leading farm crops of Tennessee; diseases of farm crops; insects injurious to farm crops.

The afternoons are devoted to the judging of corn and other cereals, inspection of plots at the Experiment Station farm, and visits to the best farms in the neighborhood of Knoxville.

Course II.—Jan. 18-30—Live Stock

Professor Morgan, Assistant Professor Quereau, Dr. Jacob

Lectures and class-room exercises on breeds of stock, including horses, cattle, sheep and hogs; feeds; the management of forage crops; the composition of food stuffs; feeding to produce the best results at least cost; nutritive ratio; problems in making rations, etc.; diseases of live stock, with treatment.

The afternoons are devoted to the judging of horses, beef cattle, sheep and swine.

Course III.—Feb. 1-13—Dairying

Assistant Professor Quereau, Mr. Dennis

Lectures and class-room exercises on the dairy breeds; composition of milk; rations for milk cows; forage and ensilage crops, silos; testing dairy cows; testing milk by the Babcock test; separators, dairy machinery, etc.

The afternoons are devoted to work in the dairy barn and creamery, every student having practice in the care of boiler and engine, separating milk, churning, butter working, and all operations connected with the dairy.

Course IV.—Feb. 15-27—Horticulture

Professor Keffer

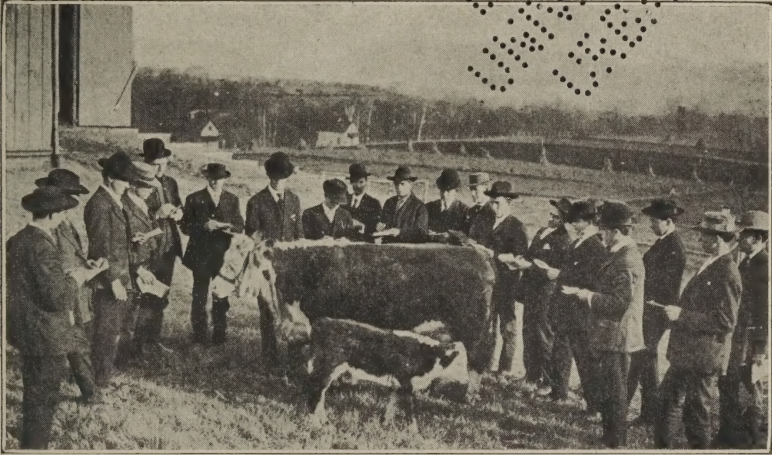
The morning hours are devoted to lectures on the leading truck crops—potato, tomato, cabbage, melon, etc.; hotbeds; cold-frames; seed-age; transplanting; small fruits; grapes; orchard fruits; orchard management—tillage, pruning, spraying, harvesting, root-grafting, top-grafting, and budding.

The afternoons are occupied with practice in pruning trained and neglected grapevines, peach, apple and other trees, and in spraying.

Course V.—Mar. 1-13—Bee Keeping

Assistant Professor Bentley

Lectures and practice. The subjects are, study of the habits and development of the honeybee; types of bees; queen rearing; methods for improving run-down apiaries; disease and parasites, with remedies; management of an apiary; types of hives; the out-apiary; selection and culture of bee plants.



STUDYING THE POINTS OF A HEREFORD

EQUIPMENT

The Experiment Station farm of the University of Tennessee is one of the best in the United States. The extensive plots and the splendid condition of the fields and meadows afford every opportunity for study and for illustration. Experiments in feeding beef cattle (high-grade Shorthorns) will be in progress at the farm and fine examples of the best breeds of dairy cattle, sheep, and hogs will be available for use in stock judging. The dairy barn, silos, and dairy give unusual facilities for the study of dairying.

The experiment orchard and vineyard contain the leading commercial fruits, and are used freely in instruction.

Several colonies of bees, and a complete equipment of accessories, make possible full demonstrations in bee husbandry.

Morrill Hall, in which Short Course lectures are given, is the newest and best building on the University campus, and contains a large agricultural library, to which the students have free access.

In addition to the facilities provided by the University, excursions to farms, market gardens, orchards and dairies are arranged for the Short Course students.



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PRIZES

County Contest

First Prize—The East Tennessee Farmers' Convention and Institute offers \$100.00 for the county (Knox excepted) that sends the largest number of students to the Short Courses; the money to be divided equally among the students from the successful county. This prize is offered upon the condition that as many as eight students from one county take at least one full two-weeks course.

Second Prize—The Tennessee State Fair Association offers \$75.00 for the county sending the second largest number of students.

Individual Contests

Prizes will be awarded to individual students for the best work in the different courses, as follows:

\$10.00 in gold, awarded for proficiency in judging light horses; given by Hon. Edward T. Sanford, Knoxville, Tenn.

\$10.00 in gold, awarded for the best essay on "Fertilizers," with special reference to the value of potash; given by the German Kali Works, New York, N. Y.

\$10.00 in gold, awarded for the best essay on "The Value of Commercial Fertilizers in the Building Up of Poor Land"; given by the Virginia-Carolina Chemical Co., Atlanta, Ga.

\$10.00 in gold, awarded for proficiency in fertilizers; given by Mr. Wm. S. Myers, New York, N. Y.

\$10.00 in gold, awarded for proficiency in feeds and feeding; given by Messrs. J. Allen Smith & Co., Knoxville, Tenn.

\$10.00 in gold, awarded for proficiency in the handling of cream separators; given by the DeLaval Separator Co., New York, N. Y.

\$10.00 in gold, awarded for proficiency in judging beef cattle; given by Messrs. Davis & Susong, Knoxville, Tenn.

\$10.00 worth of advertising space in the Industrious Hen, awarded for proficiency in the course in Bee Keeping; given by the Industrious Hen Co., Knoxville, Tenn.

\$10.00 worth of bee keeper's supplies, divided into three prizes, valued at \$5.00, \$3.00, and \$2.00, respectively; awarded for best three essays on "The Value of Bees to Fruit Growers"; given by the A. I. Root Company, Medina, Ohio.

One three-wheel sweep rake, valued at \$25.00, awarded for proficiency in all courses; given by the International Harvester Co., Chicago, Ill.

One dozen Italian queen bees, valued at \$17.00, divided into three prizes of 6, 4, and 2 queens, respectively; awarded for best three essays on "The Growing of Honey-yielding Plants that are of Value to the Farmer"; given by Mr. John M. Davis, Spring Hill, Tenn.